

Spring Loaded Thermocouple Probe



Variety of Configurations
Single and Dual Junctions
Stainless Steel Case



The **Spring Loaded Thermocouple Probe** is constructed with a stainless steel sheath and utilizes a spring to provide positive contact between the tip and the process. Positive contact can decrease the time response of the sensor as well as provide a more consistent temperature reading. Our crimped twin threaded hex fitting sensors are generally designed for use with thermowells, however they can be used in any application that requires the spring action.

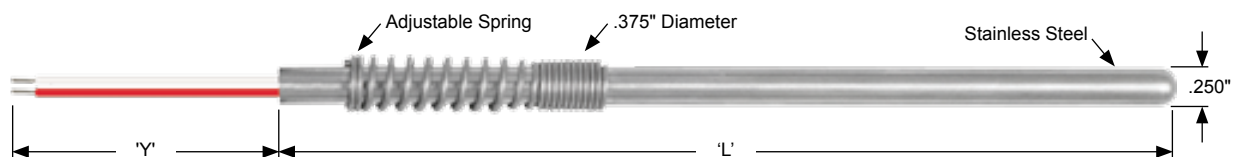
FEATURES

- Sheath Styles:
 - » Stainless Steel
- Junction Types, Single and Dual:
 - » J, K, T, E
 - » Grounded or Ungrounded
- Sheath Diameters:
 - » 0.250"
- Leadwire/Cable Options

APPLICATIONS

- Process

dimensions



'L' = Sheath Length
'Y' = Leadwire/Cable Length

Spring Loaded Thermocouple Probe

performance specifications

Insulation Resistance – Ungrounded Models:

1,000 megohms @ 500 V, leads to case

Vibration:

Withstands 5 to 500 Hz at 3 g-level peak for 3 hours. Per ASTM E 644, Sec. 10.

Shock:

Withstands 50 g-level peak sine wave shock of 11 milliseconds duration. Per ASTM E 644, Sec. 11

Pressure Rating:

1,500 psi

Thermocouple Temperature Accuracy Specifications:

Type	Temp Range	Standard Limits of Error	Special Limits of Error
T	-200 to 0°C	±1°C or 1.5%	Not ASTM Defined
	0 to 350°C	±1°C or 0.75%	±0.5°C or 0.4%
J	0 to 750°C	±2.2°C or 0.75%	±1.1°C or 0.4%
E	-200 to 0°C	±1.7°C or 1%	Not ASTM Defined
	0 to 900°C	±1.7°C or 0.5%	±1°C or 0.4%
K	-200 to 0°C	±2.2°C or 2%	Not ASTM Defined
	0 to 1,250°C	±2.2°C or 0.75%	±1.1°C or 0.4%

ordering info

Spring Loaded Thermocouple Probe

Model Temperature Range

220M Moderate: -50 to 250°C (-58 to 482°F)

220H High: Mineral Insulated (Consult Factory)

Model Thermocouple Type

J J Single

K K Single

T T Single

E E Single

JJ JJ Dual

KK KK Dual

TT TT Dual

EE EE Dual

Model Junction Style

G Grounded Junction

U Ungrounded Junction

Model Limits of Error

A Standard Limits of Error

B Special Limits of Error

Model 'L' Sheath Length

---- Define 'L' Length in Inches (12 = 12.0") Note: Minimum 1.5" / Maximum 36.0"

Model Sheath Material

B Stainless Steel

E Inconel (Model 220H Only)

Model 'Y' Leadwire/Cable Options

N No Options, Solid TFE Leadwires (36.0" Standard)

W Leadwire Options

Model	Thermocouple Type	Junction	Color Code
J	J	Single	Red/White [Constantan/Iron]
K	K	Single	Red/Yellow [Alumel/Chromel]
T	T	Single	Red/Blue [Constantan/Copper]
E	E	Single	Red/Purple [Constantan/Chromel]
JJ	JJ	Dual	Red/White // Red/White
KK	KK	Dual	Red/Yellow // Red/Yellow
TT	TT	Dual	Red/Blue // Red/Blue
EE	EE	Dual	Red/Purple // Red/Purple

联系方式



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